

Title (en)
Photovoltaic generator with solar tracking integrated into support structure

Title (de)
Photovoltaischer Generator mit in die Befestigungsstruktur integrierter Sonnenstandsnachführung

Title (fr)
Générateur photovoltaïque avec un suiveur solaire intégré dans la structure de support

Publication
EP 2051306 A1 20090422 (EN)

Application
EP 08425585 A 20080903

Priority
IT VI20070280 A 20071015

Abstract (en)
An photovoltaic generator (1) with movable photovoltaic modules (3,4) for solar tracking, including a series of photovoltaic panels (2), each of which includes a set of photovoltaic modules (3,4), which are fixed to a support structure so that each module (3,4) is able to rotate around its median axis; all the photovoltaic modules (3,4) are moved by a single drive engine (24), whose operation is controlled by an electronic integrated control and conversion device (7), which also incorporates a DC/AC converter (inverter), necessary to inject electricity into the power network (22). In particular, the overall structure of the generator (1) is designed so as to provide a very compact and thin solar tracker.

IPC 8 full level
H01L 31/042 (2006.01); **F24J 2/54** (2006.01); **H01L 31/048** (2006.01); **H01L 31/052** (2006.01)

CPC (source: EP)
F24S 23/77 (2018.04); **F24S 25/65** (2018.04); **F24S 30/425** (2018.04); **H01L 31/0543** (2014.12); **H02S 10/00** (2013.01); **H02S 20/00** (2013.01); **H02S 20/32** (2014.12); **F24S 2020/16** (2018.04); **F24S 2023/872** (2018.04); **F24S 2030/136** (2018.04); **Y02E 10/47** (2013.01); **Y02E 10/52** (2013.01)

Citation (search report)

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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